



Published weekly for employees of Lawrence Livermore National Laboratory

Friday, November 5, 2004

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Lab’s first science facility remembered

By Don Johnston
NEWSLINE STAFF WRITER

Calling Bldg. 222 an “important Laboratory icon,” Director Michael Anastasio presided Tuesday over an “end of life cycle” ceremony for the first science facility built at LLNL.

“Building 222 had a long history of innovation involving many programs from early nuclear testing, project plowshare, the development of mass spectrometers and aerogels,” Anastasio said in opening the ceremony held on the lot where the Bldg. 222 chemistry complex once stood.

Built between 1952-54, the Bldg. 222 complex was decom-



JACQUELINE MCBRIDE/NEWSLINE

From left: Michael Anastasio, Denise Robinson, Camille Yuan-Soo Hoo and Glenn Mara unveil a marker commemorating Bldg. 222.

missioned, decontaminated and demolished between 2002-04. “I’m proud of the many hardworking and skilled employees

See **BLDG. 222**, page 4

Energy Secretary Abraham announces record-breaking supercomputing performance

Secretary of Energy Spencer Abraham on Thursday announced that a supercomputer developed for the nation’s Stockpile Stewardship Program has attained a record-breaking performance of 70.72 teraFLOP/s (trillion floating point operations per second) on the industry standard LINPACK benchmark.

Though the supercomputer is running at one quarter its final size for the Department of Energy, the BlueGene/L (BG/L) beta-system is already asserting U.S. leadership in supercomputing.

A product of a multi-year research and development partnership between the DOE’s National Nuclear Security Administration (NNSA) and IBM, BG/L will support the Stockpile Stewardship Program’s mission to ensure the safety, security and reliability of the nation’s nuclear weapons stockpile without underground nuclear testing.

“The delivery of the first quarter of the BlueGene/L system to Lawrence Livermore National Laboratory this month shows how a partnership between government and industry can effectively advance national agendas in science, technology, security and industrial competitiveness,” Abraham said. “High performance computing is the back-

See **SUPERCOMPUTER**, page 8

Z Division moves to new home in a carefully choreographed, award-winning effort

By Lauren Devore
NAI

On Thursday, Oct. 28, the Nonproliferation, Arms Control, and International Security (NAI) directorate held an awards ceremony to recognize the many people who helped accomplish the move of Z Division from its old and dilapidated quarters in Bldg. 261 into

See **Z DIVISION**, page 7

Forum examines challenges minorities face at laboratories

What are the issues facing women and minorities at the national labs? How can science and engineering careers be made more attractive to young women? What is the role of the national laboratories in ensuring access for foreign nationals?

These and other issues were discussed last week

See **WOMEN’S FORUM**, page 8

Chiao casts ballot through cyberspace

While citizens nationwide jammed polling places earlier this week to cast their votes, Leroy Chiao didn’t have to take one step out of his house even though he was traveling five miles per second.

The NASA astronaut and former Lab chemical engineer, who calls the International Space Station home for the next six months, became the first American to vote in a presidential race from space, casting an encrypted ballot via e-mail and urging fellow countrymen to go to the polls Tuesday.

“It was just a small thing for me, but it is important symbolically to show that every vote does count,” Chiao said from the international space station a few hours after the polls opened 230 miles below. Chiao, 44, sent in his ballot Sunday night.

A Texas bill passed in 1997 set up a technical procedure for astronauts — nearly all of whom live in Houston — to vote from space. An electronic ballot, generated by the

See **CHIAO**, page 7



NASA/BILL INGALLS

Leroy Chiao gives a “thumbs up” on the way to the launch pad in Kazakhstan on Oct. 13.



Retirees on the road
— Page 2



Weighing in on cancer causes
— Page 3



HOME shifts into high gear
— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday 5 The B Division/Lawrence Livermore Laboratory Women's Association fall **book sale** continues through today from 11:30 a.m. to 1:30 p.m., in Bldg. 132, room 1200 (Q- or L-cleared access only). Fill a brown paper grocery bag full for \$5. All proceeds are used to buy Christmas gifts for needy children and to fund LLLWA scholarships. Each year the sales help agencies in Alameda, Contra Costa and San Joaquin counties, plus individual families in need. For more information, call Lynn Groves, 2-1684.

Saturday 6 There will be a scheduled **power outage** from 7 a.m. today to 3 p.m. Sunday, Nov. 7. Bldg. 254 and Trailers 2554 and 2684 will be affected. Air conditioning, heating and elevators also will be affected. For questions, contact Mark Cardoza, 3-0490.

The seventh annual **Vintage Computer Festival** will be held today and Sunday at the Computer History Museum, 1401 N. Shoreline Blvd., Mountain View. The doors open at 9:30 a.m. each day. Speakers present from 10 a.m.-2 p.m. The exhibit and marketplace is open from 2-6 p.m. Admission is \$12 per person per day for full access to speakers, exhibition and marketplace, or \$7.50 per person per day for exhibition and marketplace access only. Kids 17 and under are admitted free of charge, and parking is free. Complete event information, including speaker schedule and exhibitor roster, can be found on the VCF Website at: www.vintage.org/2004/main.

Thursday 11 A **Fidelity retirement counselor** will be available today and Nov. 16 and 18 to assist with: assessing the current state of retirement accounts, learning how to diversify, planning asset allocation, and identifying income strategies. Fidelity Investments Mutual Funds are available to UC's workplace retirement plan participants in addition to the UC-managed investments pools. If you would like to set up a consultation with a Fidelity representative, call 800-642-7131. When calling, be sure to specify that you are an LLNL employee.

Friday 12 Today is "**Take a Model Train to Work Day**," marking the beginning of the model railroading community's busiest season. A garden railroad model train display along with various railroad items by Matthew and Carolyn Coelho will be set up in the main lobby of Bldg. 551W from 10 a.m. to 2:30 p.m.. You also can go to Bldg. 517, room 1141, where Bruce Jahn will have a model train display. To learn more about Take a Model Train to Work Day or model trains visit the Website at <http://www.greatesthobby.com>

RETIREES' CORNER

The next retirees' luncheon will be held at noon Nov. 17 at the Elks Club on Springtown Blvd. (Reservations: www.llnlretirees.org). The speaker will be Lily Pang from UCOP on "Latest Health Plan Changes." Retirees should have received their open enrollment packets in late October or early November. If you did not, contact the health care facilitator at the Lab at 422-9955.

Margy Odell wants someone to help her arrange the Retirees' Travel Group programs for January through June 2005, then take over the chairmanship the following year. She has been the chairman for more than 10 years and thinks it's time for a change. If you would like to help, call her at 449-7262.

We have been notified by the Advisory Board on Radiation and Worker Health of the National Institute for Occupational Safety and Health that there will be a meeting in San Francisco tentatively set for Dec. 13-15 at the Westin St. Francis. There will be an evening public comment session, but the exact date and time is not yet available. For further information, call Ms. Cori Homer at (404) 298-2529, or check the Website at: www.cdc.gov/niosh/ocas.

Many retirees are unaware that they can get an "East Avenue Corridor" badge that is good for one year. With this badge they can get to the LLESA store and activities in Bldg. 415.

Community service opportunity: **Bob Hickman** and others (including some Lab retirees) serve middle-to-low income elderly people in the Tri-valley area through the AARP/IRS TaxAide Program. It is time for new participants to sign up so there is adequate time for training before February. Unlike most volunteer activities, many people cannot do this job. Working at one of the sites takes approximately four hours per week from

Feb. 1 to April 15. If you are interested, contact Hickman at 447-2052.

Waldo Magnuson (Electronics Engineering, 1990) lives in a log home on the north side of Spokane, Wash. He and his wife Barbie (retired from Livermore School District also in 1990) were to take their first cruise in October. The cruise was on a LST out of Campbell River, B.C. and visited fishing and logging villages along the coast for five days. Waldo (Skip to many) finally got his Ham license (W7WGM) and is trying to come up to speed working CW on 40 meters. He has been refurbishing vacuum tube radios for several years (mostly Zenith Transoceanic and Halli-crafters "boat anchors"). His ham station contains several of these "glow-in-the-dark" units. He still flies his Beechcraft Bonanza and Cessna 140 (rebuilt from a wreck). (E-mail: magnuson@mac.com)

Marian and David Holten (Electronics and Mechanical Engineering, 1990 and 1991, respectively) vacationed the entire month of July in their travel trailer at an RV park nestled on the banks of the Little Blackfoot River near the very small town of Garrison, Mont. They were joined by three of their daughters and families for a 10-day period. Activities included exploring Lewis and Clark country as well as restored mining towns (Phillipsburg and Virginia City) and preserved ghost towns (Garnet and Granite), both examples of the rich mining history of Montana. The group enjoyed excursions to Butte and Helena for guided tours, as well as hiking, picnicking and fishing. Later in the month, they were joined by trailering buddies **Owen Parker** (Mechanical Engineering, 2001) and Sharon for more exploration. The Parkers continued on to John Day, Ore. to visit former neighbors. **Linda Schlinger** (Electronics Engineering, 1997) flew in to Missoula and drove out to join the foursome to begin her Montana adventure, continuing on to Polson (Flathead Lake) and Glacier Lodge (E-mail: lollypop@pyramid.net).

Please send input to Jane or Gus Olson. E-mail: AugustO@aol.com or JaneRubert@aol.com. Phone: 443-4349 or snail mail address: 493 Joyce St., Livermore, Calif. 94550.

IN MEMORIAM

Victor N. Karpenko

Victor N. Karpenko passed away peacefully on Sept 26. He was 82.

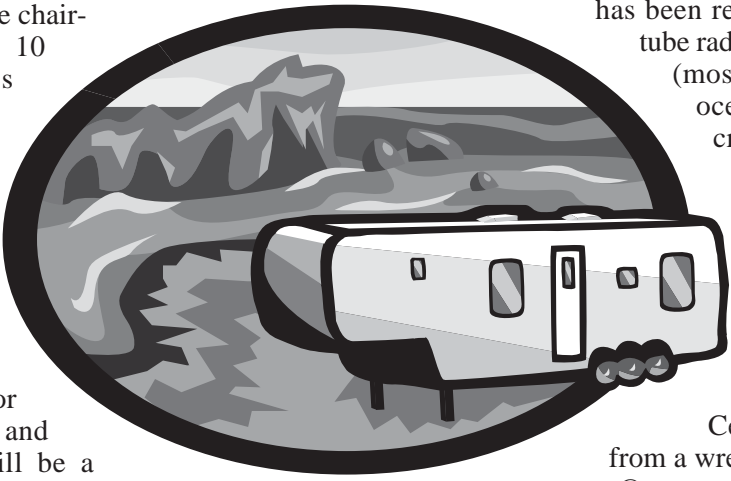
Karpenko, a Danville resident, was born in Harbin, China, on Jan. 23, 1922. He immigrated with his family to San Francisco in 1940 to escape the Japanese occupation of their homeland. In honor of his new country, Karpenko served in the U.S. Army's Military Intelligence unit during World War II. He received a degree in mechanical engineering from UC Berkeley.

He began work at LLNL in 1957 in Mechanical Engineering's Device Engineering Division first as a staff engineer, then project engineer and section leader. He became division leader in the Nuclear Test Engineering Division in 1966. In 1976, he was the Magnetic Fusion Test Facility project manager responsible for the development, design and construction of the project. At the completion of the project, he retired in December 1985 after 28 years of service.

After his retirement from LLNL, he went on to oversee the research and development of the Superconducting Super Collider (SSC) at Lawrence Berkeley Laboratory until his final retirement in 1988.

Karpenko is survived by his wife Lydia; children Victor, Mark and Sandra; and three grandchildren, Victor, Natalie, and Phillip.

Services have been held.



Newsline

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Health series examines link of obesity to cancer risk

Being overweight or obese substantially increases the risk of dying from cancer, according to researchers from the American Cancer Society.

In a 2003 *New England Journal of Medicine* study, researchers Eugenia Calle and colleagues determined that overweight and obesity may account for 20 percent of all cancer deaths in U.S. women and 14 percent in U.S. men. Under the assumption that this association is causal, this means 90,000 cancer deaths could be prevented each year if Americans would maintain a normal, healthy body weight.

A healthy body weight is defined as having a body mass index (BMI) of less than 25. You can learn more about this height to weight relationship by going to <http://nhlbisupport.com/bmi/bmi-calc.htm>.

How much do your daily habits — like a poor diet and inactivity — affect your risk for cancer?

Calle will be at LLNL to present “Lifestyle and Cancer: An Overview of Current Knowledge” Tuesday, Nov. 9, from 12:10-1 p.m. in the Bldg. 543 auditorium.

“As a society, we have not really acknowledged the contribution of obesity to chronic disease in general and cancer in particular,” said Calle, national director of analytic epidemiology at the American Cancer Society. “We are not taking it seriously enough to turn it around. We are not acting on it.”

Calle received her Ph.D. in epidemiology from Ohio State University. She worked as an epidemiologist at the Oak Ridge National Laboratory in the area of cancer risk assessment and at the Centers for Disease Control

on the Agent Orange Projects prior to joining the American Cancer Society in 1989. At the American Cancer Society, she oversees all program activities including data collection, management and analyses for Cancer Prevention Study cohorts. Her research has been primarily in the areas of breast cancer risk factors, hormone-replacement therapy and cancers in women, and adiposity and cancer incidence and mortality.

This session of the Living Well Speaker Series is sponsored by the Worklife Programs Office, Health Services Department and the Public Affairs Office. For more information, call Carol Sandoli at 2-9543.



Native American Indian month events to kick off

November is Native American Indian Heritage Month. LLNL’s American Indian Activity Group and the Worklife Program’s Office invite employees to celebrate Native American Indian Heritage Month with the following activities:

- Nov. 10 - Mary Puthoff, cultural specialist with the American Indian Center in Livermore will speak about local American Indians, show artifacts found in the local area and discuss community outreach/volunteering opportunities from noon-1 p.m. in the Bldg. 361 auditorium.
- Nov. 16 — Steve Grey, LLNL/director of Indian Affairs, DOE, will be presenting an educational presentation on American Indians in the United States today during “American Indian 101” from noon to 1 p.m. in Bldg., 482, room 1103 (NIF) auditorium.
- Nov. 17 — The American Indian Month Celebration will include native songs and dance by the Four Winds Dance Group fea-


turing LLNL Security Police Officer (SPO) Tony Fuentes and eagle/hoop dancing. Buffalo burgers, chips and sodas also will be on sale for \$6. The celebration runs from 11:30 a.m. to 1 p.m. at the LLNL picnic area.

In addition, the American Indian Activity Group will host a brown bag lunch/movie hour every Friday (except Nov. 19), from noon to 1 p.m., in Bldg. 571, room 2301.

- Today (Nov. 5) — “500 Nations,” PBS documentary series, episode 6 “Removal War and Exile in the East.”
- Nov. 12 — PBS documentary, episode 7 “Raids Across the Plains Struggle for the West.”
- Nov. 19 — “Navajo Code Talkers,” a documentary detailing the life of the Navajo code talkers whose skills played a vital role in World War II.

For more information, contact the Worklife Programs Office, 2-9543.


An Ergonomic Tip



**Push
don't
Pull**

When moving objects, push rather than pull. It requires less muscle effort to the lower back plus it increases visibility.

Advice to keep you safe.
Visit the Ergonomics Website:
<http://www.llnl.gov/ergo>





Hole-in-one is a fund-raiser first

Jim Lopez, deputy associate director for Administration and Human Resources, won the hole-in-one contest at the Brentwood Shepherd’s Gate fund-raiser golf tournament. He’s presented with a check by John Gilpin, retired Lab chief financial officer, who served as chair of the tournament. Lopez is the first contestant to ever score a hole-in-one at a Shepherd’s Gate fund raising tournament.



NEWS YOU CAN USE

BLDG. 222

Continued from page 1

whose teamwork and technical innovation came together to take this building down safely. This clean earth spot represents a significant achievement and is part of comprehensive planning for the future of our site," Anastasio said.

Anastasio thanked the Department of Energy and the National Nuclear Security Administration for providing the resources to complete the project through the Facility and Infrastructure Recapitalization Program (FIRP), an effort to revitalize facilities across the DOE/NNSA complex.

Glenn Mara, who started his career in chemistry in the early 70s, said that in addition to developing and expanding programs such as chemistry, "it's important we be good stewards of legacy facilities."

"The Laboratory has established itself as being very attentive to the needs of its programs and facilities," Mara said.

Mara praised the Lab's Institutional Facilities Manager Denise Robinson for developing a strategy to manage aging Laboratory facilities in a cost-effective manner. Bldg. 222 is the first building at the Labora-

tory to be demolished under FIRP.

Camille Yuan-Soo Hoo, NNSA site manager at LLNL, said that NNSA "has recognized that it is not always beneficial to maintain aging facilities" and the project to remove Bldg. 222 was a good example of what FIRP intended to accomplish.

Yuan-Soo Hoo lauded the team effort that kept the project within budget and with "a wonderful safety record."

Robinson praised the Space Action Team led by Mitch Waterman, which executed the project. The multidisciplinary team's effort was "yet another example of Laboratory innovation," she said.

Robinson said the four-acre site will be landscaped for employees to use until a decision is made to build a new national security facility. "This is important to the Laboratory's future," she said. "The Lab is committed to doing the right thing."

Early in the ceremony, retired radiochemist Norm Bonner reminisced about the early days of Bldg. 222, then designated Bldg. 101. "The atmosphere was very friendly. We knew everybody — engineers, physicists and chemists," he recalled, joking that "We'd talk to each other even if we didn't always understand each other."

For additional information about the Bldg. 222 project and the history of the

Employee candidates elected to local office

Some current and former Lab employees did more than just cast their ballots on election day Tuesday, they participated in the process as candidates for public office.

Tony Oravetz with the Defense Technology Engineering Division and Brent Ives with Materials Management were both re-elected to serve four-year terms on the Dublin City Council and Tracy City Council, respectively.

A newcomer to elective office, LLESA Director Steve Goodman was the top vote getter in the run for a four-year term on the Livermore Area Recreation and Parks District Board of Directors.

Recent Lab retiree Bill Dunlop, formerly with the Nonproliferation, Arms Control, and International Security Directorate, also prevailed to fulfill the remaining two years of a vacant seat on the Livermore Valley Joint Unified School District governing board.

Technical Meeting Calendar

Friday
5

INSTITUTE FOR GEOPHYSICS AND PLANETARY PHYSICS

"Scaling Relations and the Evolution Cluster Early-type Galaxies," by Bradford Holden, UCO/Lick Observatories. Noon, Bldg. 319, room 205. All attendees need to be badged. Contact: Wil van Breugel, 2-7195, or Rachael Mills, 2-6333.

Monday
8

PHYSICS & ADVANCED TECHNOLOGIES/N DIVISION

"Integral Transform Approach to Electromagnetic Reactions on 4He ," by Sofia Quaglioni, Dipartimento di Fisica - Università degli Studi di Trento, Italy. 1:30 p.m., Trailer 2128, ballroom. Contact: Rob Hoffman, 4-6411, or Annette Cook, 2-7586.

H-DIVISION/PDRP SEMINAR

"Nanoscale Heterogeneity in d-Stabilized PuGa: Implications for Transformation and Aging," by Steve Conradson, Los Alamos National Laboratory. 10:30 a.m., Bldg. 111, Poseidon Room (Q cleared only). Contact: Choong-Shik Yoo, 2-5848, Wendy Dossey, 3-5556, Darlene Klein, 4-2868, or Sonia Haro, 3-8653.

CHEMICAL BIOLOGY AND NUCLEAR SCIENCE/BIOSECURITY & NANOSCIENCES LABORATORY

"Self-Assembling Cyclic Peptide Nanotubes as Transmembrane Channels: From Chemical, Biological, and Application-Oriented Perspectives," by Hui Sun Kim, Department of Chemistry, Scripps

Research Institute. 2 p.m., Bldg. 151, room 1209, Stevenson Room. Foreign nationals may attend if approved plan is on file, which includes Bldg. 151. Contact: Jim De Yoreo, 3-4240, or Katie Thomas, 2-7903.

ICF/HEDES

"Thomson Scattering Measurements of Heat Flow in a Laser Produced Plasma," by interviewee James Hawreliak, Department of Physics, University of Oxford. 10:30 a.m., Bldg. 219, conference room 163. Contact: Bruce Remington, 3-2712, or Louann Arredondo, 2-6710.

Tuesday
9

ELECTRONICS ENGINEERING TECHNOLOGIES DIVISION

"Exploring Goodness of Fit and Spatial Correlation Using Components of Tango's Index of Spatial Clustering," by Monica C. Jackson. 10-11 a.m., Bldg. 141, room 1104 (Nyquist Room). P-cleared. Contact: Becka Gordon, 2-2199.

PHYSICS & ADVANCED TECHNOLOGIES /V-DIVISION

"Electrical Conductivity of Warm Expanded Aluminum," by Gerald Faussurier. 10:30 a.m., Bldg. 319, room 205. Contact: Stefanie Landes, 2-3201.

ENGINEERING/CENTER FOR NON-DESTRUCTIVE CHARACTERIZATION

"Rapid Digital Filter Design for Instrumentation and Communications," by Gerald Cain, DSP Creations Ltd. 1:30 p.m., Bldg. 155 auditorium. Contact: Ann Tyler, 2-4380, or Lori Goerz, 2-0237.

PHYSICS & ADVANCED TECHNOLOGIES

/V-DIVISION

"Effective Boltzmann Law and Prigogine Theorem of Minimum Entropy Production in Highly-charged Ion Plasmas," by Gerald Faussurier. 10:30 a.m., Bldg. 319, room 205. Contact: Stefanie Landes, 2-3201.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Simulations in Crystal Growth for SiC Single Crystal: Numerical Methods and Applications," by Juergen Geiser, Weierstrass Institute for Applied Analysis and Stochastics. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Panayot Vassilevski, (CASC) 3-5685, or Leslie Bills, 3-8927.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Behavior Recognition via Spatio-Temporal Features," by Serge Belongie, UC San Diego. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Shawn Newsam, (ISCR) 2-7392, or Leslie Bills, 3-8927.

UP
&
COMING

THURSDAY, NOV. 18 ENGINEERING/THE CENTER FOR ADVANCED SIGNAL AND IMAGING SCIENCES (C.A.S.I.S.)

The "Signal and Imaging Sciences Workshop" will be held on Nov. 18-19. Two keynote speakers will present — Alan Oppenheim of MIT and Jim McClellan of Georgia Tech. Sessions will begin at 9 a.m. and will be held in the Bldg. 123 auditorium. There is no cost to attend the workshop. To register, attend or give a presentation, contact Dora Da Rosa, 2-4797.

HOME Campaign donations off to a fast start

The last day to make one-time HOME Campaign donations for 2004 tax year is Nov. 12 and must be made online. All other donations - monthly payroll deductions or one-time donations made through the paper system - made between now and the end of the Helping Others More Effectively Campaign will be processed for 2005. For questions about the donation process, call 3-HOME.

One-time payroll deduction donations made for the 2004 campaign will be taken out of the Dec. 1 paycheck for monthly-paid employees and the Dec. 10 paycheck for bi-weekly paid employees.

One-time and monthly payroll donations for 2005, made online or using the pledge form from the HOME booklet, will be available throughout the HOME Campaign. One-time payroll deductions for 2005 will be taken out of the Jan. 1 paycheck for monthly-paid employees and the Jan. 7 paycheck for bi-weekly paid employees.

Since last week's Run for HOME, the official kickoff of the campaign, employees have donated more than \$749,000 to help reach the 2004 goal of \$1.6 million.

If employees donate electronically, they are



JACQUELINE MCBRIDE/NEWSLINE

Voted most colorful, the Festival of Hera from Computation participated in the HOME Run.

instantly entered in all future incentive drawings. There is no need to return an envelope. Employees who do not donate electronically may give packets to their HOME representative who will deliver it unopened to the Pledge Processing Center in the Bldg. 151 lobby, where it will be processed in complete confidence. Envelopes will be accepted through Dec. 10 for inclusion in the HOME Incentive Program. Envelopes must be dropped off at the Pledge Processing Center by noon each Friday to be eligible for the name drawing the following Friday. Winners will be randomly selected from among those pledging that week and from those pledges received earlier but who have not won a prize.

The first drawing will be Friday, Nov. 12, for packets submitted by noon today (Nov. 5). Prizes include a Friday or Saturday night stay with breakfast for two at a Wyndam Hotel, tickets to the San Francisco 49ers, San Jose Sharks, Oakland A's or San Francisco Giants games as well as gift certificates to local restaurants. The earlier you donate, the more chances you have to win a prize

For more information on the HOME Campaign and incentives, go to <http://www-r.llnl.gov/home2004/index.html>.

2004 Run for HOME winners

Skaters

Female Skaters	Time
1. Sue Wolfe	9:22
2. Linda Stuart	9:25
Male Skaters	
1. Steve Taylor	5:53
2. Ken Visbeck	5:55
3.Valentin Iota	6:00
Male Masters Skaters	
1. Frank Esparza	5:10
2, Jan D. Batteux	5:45
3. Tom Altenbach	7:16

Runners

Female Runners	
1. Beth Vitalis	10:34
2. Tara Carreira	11:14
3. Teresa Hicks	11:58

Female Masters Runners

1. Jean Shuler	13:47
2. Gabriela Odell	14:29
3. Stephanie Taylor	15:13

Male Runners

1. Trevor Willey	8:51
2. Robert Etien	9:17
3. Rob Hartley	9:25

Male Masters Runners

1. Fred Mahler	9:49
2. Richard Wheeler	10:26
3. Don Blackfield	10: 44

Costumes

Most Humorous: Superblock Olympians, DNT

Tony Oravetz, Lisa McDonald, Donna Mailhot, Janet LaHerran, Terry Chukwueke, Lorenzo Wells, Astrid Cox, Ruth Warwas, Stephanie Bates, Jim Sloan

Most Colorful: Festival of Hera, Computation

Tish Sandoval, Barbara Tuck, Irene Ortega, Kathy Turnbeaugh, Susan Springer, Ginny Dance-Rios, Jenifer Contiente, Linda McMullen, Jennifer Conrad, Michele Bianchini-Gunn, Kelly Braswell, Linda Foss, Alane Alchorn, Katrina Trujillo, Jolane Gilbert, Judy Michels

Most Creative: Zero Hero, Plant Engineering

Dan Loder

Most Patriotic: CREM Secure Committee, UTel

Barbara McDonald, Theresa Gaines, Victoria Mendenhall, Jo Motta-Owen

Best Multi-Person: Witches of RHWM, Hazards Control

Donna Almanza, Frances Fergusen, Kerry Cadwell, Dottie Hong, Stephanie Goodwin, Barbara Gould, Jean Schreiber, Shelly Gaston, Olga Ligeta, Francine Brunson, Susan Mancer, Linda Souza, Heather Blevins, Susie Begou, La Ray Abbott, Mike Fogleman, Jennie Scott, Sherie Jaramillo, Kim Fugmann, Trini Cardenas, Melissa Placencia, Linda Freitas, Joan Edwards

HOME directorate participation statistics

Directorate	Total employees	No. of contributions	Amount donated	Percent participation
Director's Office	151	74	46,769	49
Administration & Human Resources	334	152	57,155	46
Biology & Biotechnology Research	219	38	14,929	17
Chemistry & Materials Science	487	134	74,273	28
Chief Financial Officer	103	60	17,494	58
Computation	1036	221	112,719	21
Defense & Nuclear Technologies	363	79	35,831	22
Energy & Environment	296	55	26,364	19
Engineering	2052	337	153,122	16
Laboratory Services	1234	170	56,456	14
National Ignition Facility (NIF) Programs	198	33	13,709	17
Nonproliferation, Arms Control & International Security	232	36	16,790	16
Physics & Advanced Technologies	347	102	41,320	29
Safeguards & Security	372	34	9,445	9
Safety & Environmental Protection	746	177	72,918	24
S/L Vendor	—	—	—	—
Others	6	6	615	100
Totals as of Nov. 4	8176	1708	749,910	21
Goal for the 2004 HOME Campaign			\$1.6 million	



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1993 Chevy Tahoe, has extras, very nice, \$33,000. 924-3480

2002 - BMW 330i, metallic silver, fully upgraded, xlnr condition, 39K mi, leather, luxury and sport packages, garaged, 28K or make offer 925-447-6707

1965 - Ford Fairlane \$2000 needs work 925-382-9116

1997 - Nissan Quest 7-passenger 90K miles Silver, Front/Rear AC, 6-CD player, electric windows, roof rack, new tires, excellent condition. \$6700 925-803-1476

1988 - Subaru GL Turbo Wagon, 138K, newer 1.8L turbo engine, air, am/fm/cas, runs good \$1400 925-443-8253

1994 - Merc. Cougar XR7 Iris red, grey, white int. all pwr, abs, air bags, great condition 105K \$4,000 925-447-2447

1994 - Miata Limited Edition, Montego Blue, leather, removal hardtop, upgraded sound system w/6-cd changer, 75K miles, lots of extra go with her. \$6750 925-634-1606

2002 - 2002 KIA Spectra, Green with Gray Interior Must sell. Going into the Airforce \$5200.00 909-835-0312

1992 - GMC TYPHOON,(price lowered),V-6 turbo, rare, white w/grey cladding, leather interior, automatic, loaded, call for details, as is- first \$10K takes 925-455-6174

1970 - Custom VW Bug lowered, dual carbs, etc. Needs minor electrical. Xtras (spare tranny, Porsche engine block etc.) Owner must sell \$2500 OBO 925-373-1057

2002 - Z06 corvette. Torch Red. Excellent condition. Polished aluminum wheels. 18K miles. asking 42K. 925-200-9324

1990 - Honda Accord LX 2-door; great condition, runs perfectly; \$2900. 925-443-9594

AUTOMOBILE ACCESSORIES

Chrome pipe running boards for 2004 Chevy Silvarado crew cab truck; like new. \$200 925-447-2106

13 inch TIRES. 2 Dunlop155/80/B13 Nearly new tread only \$22 both. Livermore 925-447-7070

BICYCLES

Girls 10 sp bike. Great Condition \$30/bo. 209-403-4942

BOATS

90 650SX Kawasaki stand up Jet Ski.MANY mods.super clean.current tags.no trlr.picts on request.\$1000 firm. 707-315-2118

CAMERAS

Sony DSC P-5 3.2 MP digital camera on sale for \$150. Hardly ever used and is in excellent condition. Call 925-422-5831 or 408-914-1841

ELECTRONIC EQUIPMENT

Color television, 13 inch screen. Perfect for the kitchen, kids, or other small place. \$35 925-455-0847

27-inch Panasonic console TV. \$25. 50-inch Toshiba TV. Needs repair. \$100. 209-832-2790

DVD/CD Emerson audio/video system w/remote control & two 2-way speakers. Brand new, never opened. Paid \$130. Great Christmas gift. \$80. 925-648-0671

25 inch Sharp Television. 5 years old in excellent condition. No remote control, works with cable box remotes. \$50 925-443-3582

MICROWAVE Oven GE Spacesaver - mounts over stove. Black. Works fine.

Only \$30 Livermore. 925-447-7070

GIVEAWAY

Yellow male Cockatiel with cage and food to good home. Daughter is allergic. 209-239-4170

Pine Dresser 925-455-1730

FREE. 2 Fancy Rats with cage to good home. 925-292-5042

Kenmore heavy duty series 90 washer. 10 cycle. Needs belt. You haul. 925-833-2704

Sony Trinitron TV. Picture tube needs work. Audio okay. 925-838-9302

HOUSEHOLD

Light blue blue lounge chair, not overly stuffed, \$30, and 1970s vintage hutch, \$150. 924-3480

Peg-Perego Pliko stroller. Dark Blue. Excellent condition, \$110. Little Tykes lg. folding picnic table, \$25. 925-294-9022

Fireplace decorative accessory set. Antique brass. Includes brush, dustpan, poker, tool stand, and wood storage basket. Excellent condition. \$15. 925-447-5623

Dishwasher-White Whirlpool Quiet Partner II Like new, changing appliances to Stainless. \$150 OBO cell#925-784-0603 925-447-7088

New coffee table, end, sofa dark slate/rod iron, reclining sofa/chair olive green w/brads, glass dinning, more. Prices reduced/changed design plan. 925-516-8925

Executive solid oak desk with keyboard tray and return. \$250/BO 209-403-4942

Hunter-Douglas Luminette, Brand new, \$1000.00/Bo; TV combo 13 in., \$75/BO; double bed/frame, \$100/BO; Maytag washer, \$100/BO; 13 in. Sony TV, \$75/BO 209-839-0872

Dining Table w/4 Upholstered Chairs - beautiful set, heavy beveled glass table-top (redecorating - must sell) \$260 OBO 925-449-1481

XBOX Game - Tom Clancys Splinter Cell Pandora Tomorrow! Great X-Mas present! PERFECT condition \$35 925-455-0847

Restoration Hareware sofa, chenille/earth color. 2-yr-old, excellent condition. \$500 o.b.o. 925-899-8438

Natural Childcraft convertible crib, barely used (we coslept), plus mattress and bedding. \$150.00 obo. 925-245-9005

New full size/futon bunk bed in silver finish. Solid metal slats. Mattress and futon included.\$300.00 925-449-1169

Kenmore electric heavy duty series 90 dryer. Works perfectly. Four temperatures, three drying modes. You haul. \$50 OBO. 925-833-2704

Upright freezer, 17 Cubic feet, \$50.00 OBO 925-443-7215

Oak desk, 5 drawer, 2 file drawers, good condition, \$75. Overstuffed chair, tan and brown strip, good condition \$75 obo 925-606-5808

Down Comforter, queen, white. Used twice. Must sell ñ allergic to down. \$100 obo. 925-443-1953

Oak Coffee Table and Two end tables have pictures available. 925-443-3582

GE Smooth-top range: black/cream, self-cleaning, digital displays. Works well/oven temperature is accurate, \$250. 209-832-1417

Crib bedding by Kids Line. Serendipity Noahs Ark theme. Entire set including mobile, lamp, diaper stacker, hamper, etc. Have photos. \$100.00 obo. 209-833-8306

Twin Oak bookcase headboard w/frame and mattress. \$35 925-516-8339

Winners Only roll top desk w/locking top. Solid dark oak. Excellent cond. Paid \$1200 sell for \$400 firm. 925-516-8339

CARDBOARD BOXES, STURDY for moving/storage: 40 for \$50 925-447-7070

LOST & FOUND

FOUND: Glasses in Kaiser Permanente case. D2 parking lot near T4161. Call 2-3484

MISCELLANEOUS

Trex Decking 2X6 12 Ft. Lengths only. Dark brown tone. 144 pieces available. \$2 per ft.Delivery extra, installation possible. 925-484-5060

Proform Cardiocross 650 elliptical triner w/ arm motion. Great condition, \$150. USB to Motorola cellphone charger cable, \$5. 925-294-9022

MOVING: 2 King size beds, 5 pc sofa, appliances, electronics, pictures, Craftsman Mechanic tools, collectibles 209-740-7287

Used commercial hot dog and bun steamer. Star Junior Steamer Model 35S. \$100, or best offer, tax deductible to Tracy High Band Boosters. 209-836-4349

CHRISTMAS TREE, artificial, 10 feet, pine cones, light snow on branches, beautiful, \$75 (paid \$200) 925-606-0234

Portable Basketball hoop. \$30/bo 209-403-4942

Glass Dining Table set w/ 4 chairs, excellent Condition, only used 6 times - \$375.00; Sofa and Loveseat from Lifestyles - \$200.00. 209-599-5915

Big Blowout Plant Sale While Building Nursery-1555 Eden Plains Rd, Brentwood-Off Chestnut-Open Sat-Sun 8:00 to 4:00 925-240-6311

KNEX construction toys. Many sets including programable robot, many motors, instructions, excellent condition. \$25 925-447-2697

Tracy High School Class of 1974, 1975, and 1976 - 30 year Reunion, August 8th - call with address to 209-835-1081 or 209-836-5892

Original Oil Painting - Animal Nature Scene, beautifully framed, 42 inches X 30 inches. \$50.00 925-449-8035

Garage Sale, multi family, November 6 8am to 2pm 3969 Salvador Ct. Pleasanton. Refrigerator, cooktop, housewares, bicycle, etc 925-443-5641

Remote Control Car - used once, in box and has charger, \$30 925-449-6048

10 inch Craftsman radial arm saw, good condition \$75.00 925-447-9062

Push mower, 5 HP 3 in 1, 21 inch w/bag. Starts on the first pull. Excellent cond. \$75 925-516-8339

MOTORCYCLES

1972 - Honda trail70 exc shape orig owner lots of fun 1000.00 209-531-1330

1999 - 1999 Yamaha PW80 3 speed no clutch. 2 stroke w/oiler no need to mix gas. Helmet, boots, pants and shirt, size 10-12. Bike and gear \$850/obo 209-470-8773

2000 - Honda Superhawk VTR1000. Yellow/black, Yosh pipes, good tires, new clutch, cover, etc. 14,500 miles, good condition. \$4500/OBO. Use home phone. 510-684-6938

2000 - HONDA 300EX ATV, Excellent condition, low-medium miles. Kelley Blue Book=\$2,900. Asking \$2,800. 209-833-6202

1982 - Yamaha MX 100, Great beginners bike, just in time for X-mas, 2 stroke with good low end torque, no need to mix gas has oil injection!\$575 209-836-3481

MUSIC INSTRUMENTS

Piano, circa 1910, good condition, nice sound. \$200. You haul away. 925-838-7864

Cymbal. Zildjian brand, titanium series,18inch china. Used twice, like new! \$95 925-373-6255

PETS & SUPPLIES

Pet cage for: guinea pigs, hamsters, mice, rats, snakes or tortoises. Light, heat, thermostat. \$50. 423-9000, or 925-484-0697

RECREATION EQUIPMENT

Airwalk Snowboard boots size 9. Used three times. Like-new. \$50. 925-600-1817

(925) 600-1817.Multi-Game Table. Pool, Foosball, darts, basketball, air hockey, many more. All parts approx 3ftx5ft good condition \$30 925-447-2697

Virtually new United spa!5-6 mos old.Seats 6.Incl-cover,lites,volcano jet, std jets,etc. \$2800 U Pickup. 925-243-1398

2004 Winnebago Itasca Sunova 27C class A motorhome. Brand new condition, only 3K mi. Fully loaded, must see to appreciate. \$59K. 925-606-6338

Bumper Pool Table, 1 inch slate bed, excellent condition, includes cover and equipment. \$200 423-9000 or 925-484-0697

Mitshushita 1-3-5 metal woods. New cond. \$45.00. Bob 925-838-9302

Standard size pool table \$250 You disassemble,or \$300 and I will disassemble and deliver 30min radius from Tracy. 209-833-7149

Automatic pool sweep by Zodiac for above ground pool. Brand new in box. paid \$350 sell for \$100 925-516-8339

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

Martinez - Looking to add another rider/driver to a car pool leaving Martinez. Leaving town 6:45 and leaving the lab 4:30. Will consider Pleasant Hill riders. 925-228-3759, ext. 3-7857

Lafayette - LaMoRinda Vanpool (also WALNUT CREEK stop at Rudgear Rd): reclining seats, reading lights, 7:45-4:45, \$105/mo (pretax reduction available) 925-943-6701, ext. 2-3005

SERVICES

Martinez Painting Service - Residential and Commercial. Interior, Exterior, Acoustic Ceiling removal & Pressure Washing. free Estimates Lic #040667 925-784-1197

Mountain House/Tracy Area Childcare Service- Up to \$4/hour, depending on child age, length of care. Right off of 580/205. 209-836-3806

Face painting for childrens parties. Please call for details or for bookings. 209-835-4281

DAYCARE - Quality licensed childcare in my home. Loving, playful and educational in a developmentally appropriate environment. Ages 2-4 FT. 925-449-5667

Need reliable person for weekly house-cleaning. 3br/2 ba house, ~10 mi. north of Livermore. Will pay going rate plus bit extra for the drive out. 925-447-4830

SUPPORT GROUP for BETTER RELATIONSHIPS-personal/business! Codependents Anonymous (CoDA) Meets Tuesdays Noon T3520/R1174 Just come or call for Info 925-447-7070

SHARED HOUSING

Castro Valley- 1 bd inlaw appt. Full bath. Kitchen/living rm. 650 sq/ft. Private entry. Quiet. \$800 /month. 510-276-1240

Dublin - Dublin room for Rent Private home \$500 per month + 1/3 utilities + deposit share bath/kitchen non-smoker. 510-410-0883

Livermore - Large room in upscale neighborhood, own bathroom, kitchen priviledges, pets considered, pool, hot tub

\$750 month plus utilities. 925-899-9675

Livermore - furnished room for rent. Clean/quiet. No pets/no smoking. Deposit. Share utilities. \$550.00/month. 925-449-1128

Modesto - Room for rent in a 3bd/2ba house. \$350/month + 1/3 utils. 209-406-5253

Livermore - Room to Rent with Private bath. Right off East Avenue by the High School. \$500 a month. Please call, evenings, after 5:30pm. 925-449-0305

TRUCKS & TRAILERS

1994 - Ford Suburban \$6500 925-382-9116

1998 - Fiberglass shell insulated tinted windows rear light fits 1998 ford F 150 XTRA CAB/short bed 400.00 209-531-1330

1978 - DODGE 150 full size pickup, long bed, 6 cyc, 4 spd, 97K miles, smog done, camper shell. \$1000 925-447-2697

CAR-TOTE excellent condition, like new, \$995 (compare at \$1400 new) 925-216-9687

Versa-haul carrier \$350/obo 209-470-8773

VACATION RENTALS

Cozy mountain cabin near Arnold. 4 bedr, 2 bath, fully equipped kitchen, great wood burning stove. Plan ahead for snow and sun. Sleeps 10-12. 925-245-1114

Soooo cute beach cottage in Santa Cruz near harbor. 2 bedr, 2 bath, spa, fully equipped kitchen. 4 blks from ocean. Sleeps 7-8. 925-245-1114

Perfect location for skiers! Tahoe cabin for rent 2 blocks from Heavenly. Sleeps approx 8 adults. \$375/wk, \$175/wknd. Call Jan or Steve for details. 925-240-1615

Palm Springs - Hotel resort. Luxury apartment with full kitchen. Close to LA and Joshua Tree Natl Park and more. Available in Thanksgiving 11/19-11/29/04. 925-606-5660

Long Barn, CA - Small Single Family Cabin fun all year round. Close to Pinecrest lake and Dodge Ridge. Call for rates. 209-824-5727

South Lake Tahoe - Bijou area, 1 mile from clubs, walk to beach. 3 bed. all amenities. \$575 week, \$240 weekend, \$100 day, plus room tax. 209-239-6353

Tahoe Keys - House, 3 bdrm, 2.5 bath, fenced yard, quiet sunny location, great views of water and mountains, call for details. 925-376-2211

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, comfortably furnished, all amenities, RESERVE NOW FOR HOLIDAYS/SKIING! 209-599-4644

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8, Walk to Royal Gorge 5 min to Sugar Bowl \$225 wknd,\$525/week 209-836-3481

San Diego Area (Carlsbad), - Grand Pacific Palisades, 3 bedroom Condo, Sleeps 9. Avail. 12/19-26/2004 for \$850 or 12/23-26/04 for \$385. 925-449-6048

WANTED

Wanted: an experienced builder to build a patio cover in my backyard, Tracy area. 209-834-1835

Wanted classmates of Tracy High School class of 1974, 1975, and 1976 for 30 year class reunion. Call with address to 209-835-1081 or 209-836-5892. 209-835-1081

2 horse side by side trailer, tandem axle in good shape. 925-443-8758

WANTED: Guitars/Bass guitars, cabinets, tube amps, working or not. 925-443-2954



NANCY RUTTER/TID

Acting Associate Director for NAI Steve Cochran, third from left in the front row, with members of the directorate’s Z Division at an award ceremony.

Z DIVISION

Continued from page 1

the sparkling new facility of Bldg. 140, the International Security Research Facility.

Z Division executes NAI’s International Assessments program, conducting international security research and analysis and other projects for various departments and agencies of the U.S. government. As such, it handles sensitive information under explicit security regulations.

At any time, moving this work from one building to another would be an undertaking of great care and concern. In today’s environment, with ultra-sensitivity toward security, the move was fraught with potential for disaster. Moreover, the Lab’s Classified Removable Electronic Media (CREM) stand down occurred during this move, requiring extra diligence and placing additional stress on Z Division’s security team.

“We knew that we had to make this move perfectly,” said Melanie Elder, Z Division leader. “There could be no mistakes — no missing disks, no misplaced documents, no discrepancies in property records, nothing left behind or lost along the way.”

With perfection as the requirement, Z Division began detailed planning half a year before the move. A “move team” was assembled that included persons with expertise in security, safety, facilities, document control and property management.

About four months before the move, Z Division began “cleaning house.” Said Elder, “Obviously, the less stuff that had to be moved, the less chance for problems.”

Z Division personnel went through every office, every repository, every desk, bookshelf and filing cabinet.

Consider these move statistics

For a flavor of this move, consider these statistics:

36	move days, including weekends, spread over eight weeks
59	trips
100	truck loads
151	people moved
258	phones hooked up
15	miles of shrink-wrap used
30	miles of tape used
7,000	boxes moved, 3,783 that had to be scanned
5,552	items of property moved
16,656	barcodes scanned
154	repositories
417	computers
33	servers, five routers, 56 printers, and 30 pieces of network-related equipment
750	accountable items of physical property
88,000	classified documents from the Document Control Center
281,000	film flats
407,000	pieces of microfiche

inet. More than 700 sacks of classified paper documents were properly destroyed, along with some 100 sacks of plastic and computer disks and more than 1,500 pieces of classified media.

Because of the surge of sensitive material being destroyed, additional Z Division personnel pitched in to assist those in the Document Control Center who normally take the sacks to the Hammermill and over-

see the destruction.

“I found my Hammermill trips very enlightening,” Elder joked. “They got me out of my office and exposed me to areas of the Lab I’d never seen before.”

To make sure that all materials were fully accounted for and arrived safely at their proper destinations, the move team labeled and used bar-code readers to conduct a 100 percent inventory of all materials scheduled to move the following day.

Following a morning brief, the team loaded items to be moved onto carts, where they were inventoried by bar-code reader for a second time, shrink-wrapped to the carts as a security and safety measure, and then loaded onto the moving trucks. Once the day’s load was completely on the trucks, the team reconciled that day’s inventory with the one from the previous evening and the move proceeded to Bldg. 140.

Arriving at the new building, the team moved the carts inside, removed the shrink-wrap, and made a final bar-code inventory for each cart. After the trucks were completely unloaded, the team conducted its final reconciliation of the day’s move. Once reconciled, the team reassembled for a final out-briefing to review daily “lessons learned” and to review all security and safety points.

This process was repeated for each and every move day.

The most number of boxes moved for a single person was 88. The most pieces of equipment moved for one individual was 60.

“This was an amazing, indeed an inspiring team effort,” Elder said. “I am so impressed at the way everyone pulled together, paid attention to every last detail, and pulled this off without a hitch.

“Z Division occupied Building 261 for nearly 40 years. Thank goodness, the next time

CHIAO

Continued from page 1

Galveston County Clerk’s office, was e-mailed to Chiao’s secure account at NASA’s Johnson Space Center. Mission Control Center transferred the e-mail to the station using a high-speed modem via satellite, the same way they send all astronauts e-mails to the station.

Then, Chiao cast his vote and used a secure e-mail connection to send his ballot back to the clerk’s office

to be recorded.

Though Chiao wasn’t the first astronaut to vote in space, he is the first astronaut to vote in a presidential election. Astronaut David Wolf was the first astronaut to vote from space when he lived aboard the Russian Mir Space Station in 1997.

Chiao is only a few days into a six-month mission as commander of the tenth crew of the International Space Station. His Expedition 10 crewmate is Russian Cosmonaut Salizhan Sharipov.

Chiao said he considered all the issues facing the nation — not just the future of the space program —

in deciding whom to vote for. He said the choice was private.

The son of Chinese immigrants, Chiao feels too many Americans take the right to vote for granted.

“People of my ancestry haven’t always had the right to vote and it’s something that kind of hits home for me,” he said.

Chiao did not expect to learn the outcome of the election until he woke up Wednesday morning. An early wake-up call usually conveys bad news, he said, “so this is something that could wait until the morning.”

WOMEN'S FORUM

Continued from page 1

at the third "Laboratory Women's Forum," a conference for Livermore, Los Alamos, Sandia and Lawrence Berkeley technical and managerial women held on the LBNL campus. The conference was created in 1999 by a consortium of laboratory employees desiring a frank discussion about the issues women in science and technology face. Since then, it has evolved into a premiere networking conference ensuring dialogue and offering solutions on a broad range of issues affecting the growth of science and technology. At this year's conference, more than 150 people from LLNL, Sandia, LANL and LBNL attended.

"This conference brings together a group of highly capable women to discuss furthering the field," said Jan Tulk, associate director for Administration and Human Resources. "When you do that, you not only learn about the types of issues that these women face, but how solutions can affect and benefit the entire workforce. I was very impressed."

More than 50 employees from LLNL attended the forum, including Director Michael Anastasio, Chief Executive Officer Ron Cochran and Associate Director for Computation Dona Crawford.

"I appreciated the opportunity to attend," Anastasio said. "From the engaging discussions I listened to, it is clear to me that this is very beneficial. I commend the steering committee and all the participants for creating such a worthwhile forum."

M.R.C. Greenwood, the new UC Office of the President provost and senior vice president for academic



DAN KROTZ/LBNL

From left: Ron Cochran, Dona Crawford, Ellen Tauscher and Michael Anastasio at the Laboratory Women's Forum held in Berkeley.

affairs, provided the opening comments. U.S. Congresswoman Ellen Tauscher, a longtime supporter of the forum, served as the keynote speaker.

"I am here today because I know how important you are," Tauscher noted. "We need to find young women and mentor them in the fields of science and technology. We must insist on a standard that ensures them a place at the top. It will take our lifetime to do this, but unless we do it, it won't be achieved," she said.

Tauscher also took a moment to complement the Lab's steering committee that started the conference in 1999, and she singled out Dorothy Bishop, associate division leader for Environmental Restoration, for her leadership role. In addition to Bishop, other LLNL representatives who served on the steering committee included Pat Berge, Sabre Coleman, Kathy Cromwell, Monya

Lane, Lori Souza, Becky Failor and Cindy Conrado.

Throughout the day, various panels addressed different aspects of science and technology. Souza, deputy associate director for Chemistry and Materials Science, led a panel discussion on women's issues; Denise Robinson, Institutional Facilities manager, outlined facility plans for the future, while Mim John, vice president for Sandia, and Camille Yuan-Soo Hoo, manager of the Livermore Department of Energy Site Office, offered perspectives from a national level. Kim Budil, associate division leader for Dynamic Experiments in Materials Science and Technology, and others recapped the progress made since the two previous conferences and breakout groups addressed the issues of foreign national access, career pipelines and mentoring. A poster session complemented the talks, with displays by Bevin Lin, Staci Kane (Environmental Restoration), Chandrika Kamath (Computation), Jutta Escher (Physics), and Laura Gilliom (University Relations).

"The conference was very motivational and energizing," said Failor, deputy department head for Hazards Control. "There were young women here today who have come into the pipeline and are part of our organization because of the groundwork this conference began in 1999."

As in previous forums, a final report with new suggestions and proposals will be produced for management review. "We addressed topics near and dear to our hearts," noted Lane, operations manager for Engineering. "Our job now is to come up with national lab caliber ideas to ensure success."

Crawford concurred. "This is the third forum I've attended. The first two resulted in very concrete ideas. I expect the same to be true for this one. And when the solutions are presented, they will be solutions that benefit all employees."



JACQUELINE MCBRIDE/NEWSLINE

Director Michael Anastasio (left) applauds Energy Secretary Spencer Abraham during a July ceremony at the Laboratory's new supercomputing facility after Abraham signed the first BlueGene/L rack.

SUPERCOMPUTER

Continued from page 1

bone of the nation's science and technology enterprise, which is why the department has made supercomputing a top priority investment. Breakthroughs in applied scientific research are possible with the tremendous processing capabilities provided by extremely scalable computer systems such as BlueGene/L."

Scientific problems in chemistry, physics and materials science require an immense processing capability but frequently present relatively modest memory requirements. For NNSA and its Advanced Simulation and Computing program, the BlueGene/L machine is essential for understanding pressing scientific issues including, most prominently, weapons aging. Additionally, understanding material properties, higher resolution representations of physics in three-dimensions and achieving a tighter coupling of computational

science with experimental science are all issues that the BG/L architecture is uniquely qualified to support through large-scale calculations.

Abraham added "BG/L will reduce the time-to-solution for many computational problems, allowing DOE scientists to explore larger, longer, and more complex problems than ever before. For example, a heroic 30-day calculation on what was the No. 3 supercomputer on the Top 500 list in summer of 2003 would now be completed on this quarter-size BG/L system in about three days."

The final BG/L system will exceed the performance of the Japanese Earth Simulator by a factor of about nine while requiring one-seventh as much electrical power, and one-fourteenth the floor space. These factors are important because they will make it possible for more American university, governmental, and industrial researchers to procure, operate, and use effective supercomputers in the future.

East Avenue security changes

Starting today (Nov. 5) and continuing at least through the weekend, there will be a new traffic cone configuration at the west (Vasco Road) end of the joint East Avenue security corridor, according to Don Charlesworth, manager of security operations at Sandia. This will be a trial configuration. The goal will be to slow traffic between the security kiosks and the pop-up delta barriers. "But the cone-pattern will not reduce traffic to one lane," Charlesworth stressed.

At the east (Greenville Road) end of the East Avenue security corridor, starting Saturday the pop-up delta barriers will be maintained in the "up" position. This means drivers must wait while the barriers are lowered for both entry and exit.

"This a weekend test," Charlesworth said. "That may be extended."

The change addresses both security and safety issues, he said.



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